

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/552,272

DATE: 05/09/2000
TIME: 16:10:11

Input Set : A:\9136600.app
Output Set: N:\CRF3\05092000\I552272.raw

ENTERED

3 <110> APPLICANT: THE UNIVERSITY OF MEDICINE AND DENTISTRY
5 <120> TITLE OF INVENTION: COLD-SHOCK REGULATORY ELEMENTS, CONSTRUCTS THEREOF, AND
6 METHODS OF USE
8 <130> FILE REFERENCE: 913.6600PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/552,272
C--> 11 <141> CURRENT FILING DATE: 2000-04-19
13 <160> NUMBER OF SEQ ID NOS: 71
15 <170> SOFTWARE: PatentIn Ver. 2.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 14
19 <212> TYPE: RNA
20 <213> ORGANISM: E. coli
22 <400> SEQUENCE: 1
23 acuuugugau ucau 14
25 <210> SEQ ID NO: 2
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27 <212> TYPE: RNA
28 <213> ORGANISM: E. coli
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31 augacuggua ucgu 14
33 <210> SEQ ID NO: 3
34 <211> LENGTH: 14
35 <212> TYPE: RNA
36 <213> ORGANISM: E. coli
38 <400> SEQUENCE: 3
39 augacugguu ucgu 14
41 <210> SEQ ID NO: 4
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43 <212> TYPE: RNA
44 <213> ORGANISM: E. coli
46 <400> SEQUENCE: 4
47 augacugguu uagu 14
49 <210> SEQ ID NO: 5
50 <211> LENGTH: 14
51 <212> TYPE: RNA
52 <213> ORGANISM: E. coli
54 <400> SEQUENCE: 5
55 augaguuaug uaga 14
57 <210> SEQ ID NO: 6
58 <211> LENGTH: 14
59 <212> TYPE: RNA
60 <213> ORGANISM: E. coli
62 <400> SEQUENCE: 6
63 auggcgaaaa gaau 14
65 <210> SEQ ID NO: 7
66 <211> LENGTH: 47
67 <212> TYPE: RNA

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68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Description of Artificial Sequence: mRNA construct
73 <220> FEATURE:
74 <223> OTHER INFORMATION: n = g, c, u or a
76 <220> FEATURE:
77 <223> OTHER INFORMATION: This sequence may encompass a construct wherein
78   the "n" region may be 0-30.
80 <400> SEQUENCE: 7
OK 81 augnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaugacug guaucgu                47
83 <210> SEQ ID NO: 8
84 <211> LENGTH: 47
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA which
90   encodes for the mRNA construct
92 <220> FEATURE:
93 <223> OTHER INFORMATION: n = g, c, t, or a
95 <220> FEATURE:
96 <223> OTHER INFORMATION: This sequence may encompass a construct wherein
97   the "n" region may be 0-30.
99 <400> SEQUENCE: 8
OK 100 atgnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatgactg gtatcgt            47
102 <210> SEQ ID NO: 9
103 <211> LENGTH: 15
104 <212> TYPE: DNA
105 <213> ORGANISM: E. coli
107 <220> FEATURE:
108 <221> NAME/KEY: MOD_RES
W--> 109 <220> FEATURE: (5)
W--> 109 <220> FEATURE: (5)
110 <223> OTHER INFORMATION: a substituted by t
W--> 112 <220> FEATURE:
113 <221> NAME/KEY: MOD_RES
W--> 114 <220> FEATURE: (6)
W--> 114 <220> FEATURE: (6)
115 <223> OTHER INFORMATION: t substituted by c
W--> 117 <220> FEATURE:
118 <221> NAME/KEY: MOD_RES
W--> 119 <220> FEATURE: (9)
W--> 119 <220> FEATURE: (9)
120 <223> OTHER INFORMATION: a substituted by g
OK 122 <400> SEQUENCE: 9
123 aattmntana ggtaa                15
125 <210> SEQ ID NO: 10
126 <211> LENGTH: 15
127 <212> TYPE: DNA
128 <213> ORGANISM: E. coli

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130 <400> SEQUENCE: 10
131 acggttctag acgta                               15
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134 <211> LENGTH: 20
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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142 cggcattaag taagcagttg                           20
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145 <211> LENGTH: 33
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147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
152 <400> SEQUENCE: 12
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156 <211> LENGTH: 22
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
163 <400> SEQUENCE: 13
164 cggaattcag cctgtaatct ct                         22
166 <210> SEQ ID NO: 14
167 <211> LENGTH: 24
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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175 ctgtcgactt acttacggcg ttgc                       24
177 <210> SEQ ID NO: 15
178 <211> LENGTH: 19
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
185 <400> SEQUENCE: 15
186 gacaggatta aaaatcgag                             19
188 <210> SEQ ID NO: 16
189 <211> LENGTH: 15
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191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
196 <400> SEQUENCE: 16

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208 ccttgctagc cgattaatca taaatatg 28
210 <210> SEQ ID NO: 18
211 <211> LENGTH: 23
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
218 <400> SEQUENCE: 18
219 ccggatccag gttgaacat ttt 23
221 <210> SEQ ID NO: 19
222 <211> LENGTH: 23
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
229 <400> SEQUENCE: 19
230 actacacttt gatgtgcatt agc 23
232 <210> SEQ ID NO: 20
233 <211> LENGTH: 24
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
240 <400> SEQUENCE: 20
241 caacgataag ctttaatggt ctgt 24
243 <210> SEQ ID NO: 21
244 <211> LENGTH: 21
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
251 <400> SEQUENCE: 21
252 taaaggctct tgaaggga t 21
254 <210> SEQ ID NO: 22
255 <211> LENGTH: 26
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
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262 <400> SEQUENCE: 22
263 cggcgatata atgtgcacta cgaggg 26

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265 <210> SEQ ID NO: 23
266 <211> LENGTH: 26
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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274 tacctttaag gcgtgcttta cagatt 26
276 <210> SEQ ID NO: 24
277 <211> LENGTH: 24
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
284 <400> SEQUENCE: 24
285 gcacatcaaa gtgtagtaag gcaa 24
287 <210> SEQ ID NO: 25
288 <211> LENGTH: 21
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
295 <400> SEQUENCE: 25
296 taaagcttat cgttgatacc c 21
298 <210> SEQ ID NO: 26
299 <211> LENGTH: 24
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
306 <400> SEQUENCE: 26
307 tcaagagcct ttaacgcttc aaaa 24
309 <210> SEQ ID NO: 27
310 <211> LENGTH: 22
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
317 <400> SEQUENCE: 27
318 gcacattata tcgccgaaag gc 22
320 <210> SEQ ID NO: 28
321 <211> LENGTH: 26
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
328 <400> SEQUENCE: 28
329 aaagcacgcc ttaaaggtaa tacact 26
331 <210> SEQ ID NO: 29

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VERIFICATION SUMMARY DATE: 05/09/2000
PATENT APPLICATION: US/09/552,272 TIME: 16:10:12

Input Set : A:\9136600.app
Output Set: N:\CRF3\05092000\I552272.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:81 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7
L:81 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7
L:81 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7
L:100 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:100 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
L:100 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8
L:109 M:283 W: Missing Blank Line separator, <220> field identifier
L:109 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:114 M:283 W: Missing Blank Line separator, <220> field identifier
L:114 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:119 M:283 W: Missing Blank Line separator, <220> field identifier
L:119 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:123 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:123 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9